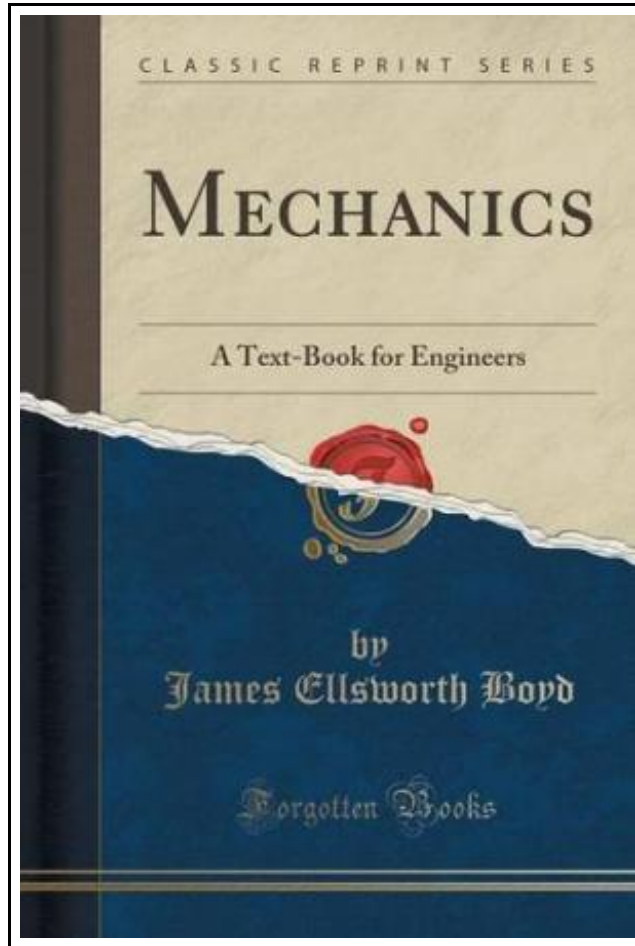


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Mechanics: A Text-Book for Engineers This book is intended to give a working knowledge of the principles of Mechanics and to supply a foundation upon which intelligent study of Strength of Materials, Stresses in Structures, Machine Design, and other courses of more technical nature may rest. In the development of this subject, emphasis is put upon the physical character of the ideas involved, while mathematics is employed as a convenient tool for the determination and expression of quantitative relations. Analytical and graphical methods are given together and each is interpreted in terms of the other. While the principal stress is placed upon Mechanics as a science, considerable attention is given to Mechanics as an art. In the text, in some of the problems, and in many of the illustrative examples, methods of calculation are suggested by means of which accurate results may be most readily obtained. The definitions of work and potential energy, together with the solution of problems of statics by the method of virtual work are given early. In the treatment of dynamics, the definitions of kinetic energy and its application to the conditions of variable motion are introduced as soon as possible. In equations involving acceleration or energy, the common commercial units are employed - the pound mass as the unit of mass and the weight of the pound mass as the unit of force. In order to clear up the confusion which results from the fact that physicists use one set of units while some engineering writers use another. Chapter XVIII is devoted to a discussion of the various systems. The author acknowledges his obligations to many of his colleagues who...



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